## 2004 Water Quality Assessment (Final) - Category 5 Listings for WRIA 28

WRIA	Listing ID Cate	gory	98 List?	Waterbody Name Basis	Location Ir	nformatio	n			Parameter	Remarks	Medium
28	7836	5	Y	BURNT BRIDGE CREEK Gaddis, 1994. , 12 excursions beyond the criterion out of 44 samples at station BBC2 between	<b>GB90VP</b> een 1/91 an	<b>16.32</b> d 12/93.	02N	01E	38	Dissolved or	ygen	Water
28	7839	5	Y	BURNT BRIDGE CREEK Gaddis, 1994. , 3 excursions beyond the criterion out of 32 samples (9%) at station BBC3 by	GB90VP etween 1/9	<b>18.38</b> 1 and 12/	<b>02N</b> 93.	02E	60	Dissolved or	ygen	Water
28	7840	5	Y	BURNT BRIDGE CREEK Gaddis, 1994., 6 excursions beyond the criterion out of 36 samples (16%) at station BBC4	GB90VP between 1/	<b>20.389</b> 91 and 12	-	02E	67	Dissolved or	ygen	Water
28	7841	5	Y	BURNT BRIDGE CREEK Gaddis, 1994. , 14 excursions beyond the criterion out of 45 samples (31%) at station BBC	GB90VP 5 between 1	<b>22.261</b> /91 and	-	02E	56	Dissolved or	ygen	Water
<b>28</b> to	7844	5	Y	BURNT BRIDGE CREEK Clark County data (submitted by Carl Addy on 10/6/93) show 8 excursions beyond the criteri	GB90VP on at 112th	23.563 Ave stati				Dissolved or	During the assessn Policy 1-11 (update number of years of impairments . Base DO statewide, it wa excursions for at le- used as an alternat	Water nent of data it was determined that WQ and 9/03) was overly restrictive for the data excursions needed to list for D.O. and on a review of monitoring studies for as determined that multiple (3 or more) ast two years of monitoring should be ive indicator that a waterbody continues by, ECY/WQP, 2003)
28	7827	5	Y	BURNT BRIDGE CREEK Clark County data (submitted by Carl Addy on 10/6/93) show 15 excursions beyond the crite	GB90VP rion at the 1	<b>18.38</b> 8th Stree	-	-		Fecal Colifor /92	Fecal coliform data	Water were previously submitted only in e water segment is listed as Category 5 assessment.
28	7828	5	Y	BURNT BRIDGE CREEK Clark County data (submitted by Carl Addy on 10/6/93) show 8 excursions beyond the criter	GB90VP ion at Burto	<b>20.222</b> n Road s	-	-		Fecal Colifor	Fecal coliform data	Water were previously submitted only in e water segment is listed as Category 5 assessment.

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WRIA	Listing ID Cate	gory	98 List?	Waterbody Name	Location Ir	formatio	n			Parameter		Medium
				Basis							Remarks	
28	7829	5	Υ	BURNT BRIDGE CREEK	GB90VP	9.638	02N	01E	15	Fecal Colifor	rm	Water
				Hallock (2004), Dept. of Ecology ambient station 28C070 shows 2 of 3 samples (66.7%) in y	ear 2003 ex	ceeded t	he per	centile	criterion.			were previously submitted only in e water segment is listed as Category 5
				Samadpour et. al., 1999, (submitted by Rosemere Neighborhood Association, 2/12/2004), sociation and 3 of 5 samples (60%) collected in 1996 exceeded the percentile criterion; the go (78%) exceeded the percentile criterion in 1997.							based on the 1998	
				Clark County data (submitted by Carl Addy on 10/6/93) show 22 excursions beyond the crit	erion at NW	2nd Ave.	. statior	n betwe	een 1/7/91 and 12/7/9	92,		
28	7830	5	Υ	BURNT BRIDGE CREEK	GB90VP	23.563	02N	02E	69	Fecal Colifor	rm	Water
				Clark County data (submitted by Carl Addy on 10/6/93) show10 excursions beyond the crite	rion at 112th	Ave stat	tion bet	ween 7	7/9/91 and 9/15/92,			were previously submitted only in e water segment is listed as Category 5 assessment.
28	7832	5	Υ	BURNT BRIDGE CREEK	GB90VP	22.261	02N	02E	56	Fecal Colifor	rm	Water
				Samadpour et. al., 1999, (submitted by Rosemere Neighborhood Association, 2/12/2004), sociation and 3 of 5 samples (60%) collected in 1996 exceeded the percentile criterion; the go (22%) exceeded the percentile criterion in 1997.	tation BBC2 eometric me	shows th an of 161	ne geor 1.6 exc	netric r eeded	mean of 257.2 excee the criterion and 2 of	ded the 9 samples		were previously submitted only in e water segment is listed as Category 5 assessment.
				Gaddis, 1994., 17 excursions beyond the criterion at out of 36 samples at station BBC5 between the criterion at out of 36 samples at station BBC5 between the criterion at out of 36 samples at station BBC5 between the criterion at out of 36 samples at station BBC5 between the criterion at out of 36 samples at station BBC5 between the criterion at out of 36 samples at station BBC5 between the criterion at out of 36 samples at station BBC5 between the criterion at out of 36 samples at station BBC5 between the criterion at out of 36 samples at station BBC5 between the criterion at out of 36 samples at station BBC5 between the criterion at out of 36 samples at station BBC5 between the criterion at out of 36 samples at station BBC5 between the criterion at out of 36 samples at station BBC5 between the criterion at out of 36 samples at station at the criterion at out of 36 samples at station at the criterion at out of 36 samples at station at the criterion at the crit	ween 1/91 a	and 12/93	3.;					
28	7856	5	Υ	BURNT BRIDGE CREEK	GB90VP	16.32	02N	01E	38	Fecal Colifor	rm	Water
				Samadpour et. al., 1999, (submitted by Rosemere Neighborhood Association, 2/12/2004), so criterion and 2 of 5 samples (40%) collected in 1996 exceeded the percentile criterion; 2 of 2 the geometric mean of 244.2 exceeded the criterion and 5 of 9 samples (55%) exceeded the	samples (1	00%) col	lected	in 1997				were previously submitted only in e water segment is listed as Category 5 assessment.
				Gaddis, 1994., 23 excursions beyond the criterion at out of 36 samples at station BBC2 between the control of the criterion at out of 36 samples at station BBC2 between the criterion at out of 36 samples at station BBC2 between the criterion at out of 36 samples at station BBC2 between the criterion at out of 36 samples at station BBC2 between the criterion at out of 36 samples at station BBC2 between the criterion at out of 36 samples at station BBC2 between the criterion at out of 36 samples at station BBC2 between the criterion at out of 36 samples at station BBC2 between the criterion at out of 36 samples at station BBC2 between the criterion at out of 36 samples at station BBC2 between the criterion at out of 36 samples at station BBC2 between the criterion at out of 36 samples at station BBC2 between the criterion at out of 36 samples at station BBC2 between the criterion at out of 36 samples at station at the criterion at out of 36 samples at station at the criterion at	ween 1/91 a	and 12/93	3.;					
28	7858	5	Υ	BURNT BRIDGE CREEK	GB90VP	20.389	02N	02E	67	Fecal Colifor	rm	Water
				Gaddis, 1994., 15 excursions beyond the criterion at out of 32 samples at station BBC4 between the criterion at out of 32 samples at station BBC4 between the criterion at out of 32 samples at station BBC4 between the criterion at out of 32 samples at station BBC4 between the criterion at out of 32 samples at station BBC4 between the criterion at out of 32 samples at station BBC4 between the criterion at out of 32 samples at station BBC4 between the criterion at out of 32 samples at station BBC4 between the criterion at out of 32 samples at station BBC4 between the criterion at out of 32 samples at station BBC4 between the criterion at out of 32 samples at station BBC4 between the criterion at out of 32 samples at station BBC4 between the criterion at out of 32 samples at station BBC4 between the criterion at out of 32 samples at station BBC4 between the criterion at out of 32 samples at station BBC4 between the criterion at out of 32 samples at station at the criterion at out of 32 samples at station at the criterion at the cri	ween 1/91 a	and 12/93	3.;					were previously submitted only in e water segment is listed as Category 5 assessment.
28	7837	5	Υ	BURNT BRIDGE CREEK	GB90VP	9.638	02N	01E	15	Temperature	•	Water
				Gaddis, 1994., 6 excursions beyond the criterion out of 41 samples (15%) at station BBC1	in 1991,199	2,and 199	93.			-		
28	7847	5	Υ	BURNT BRIDGE CREEK	GB90VP	16.32	02N	01E	38	Temperature	<b>)</b>	Water
				Gaddis, 1994., 12 excursions beyond the criterion out of 45 samples (27%) at station BBC2	2 in 1991, 19	92, and	1993.;					

WRIA	Listing ID Cate	egory	98 List?	Waterbody Name Basis	Location I	nformatio	n			Parameter	Medium Remarks
28	7848	5	Y	BURNT BRIDGE CREEK Gaddis, 1994., 4 excursions beyond the criterion out of 32 samples (13%) at station BBC3	<b>GB90VP</b> in 1991, 199	<b>18.38</b> 92 and 19		02E	60	Temperature	e Water
28	7855	5	Y	BURNT BRIDGE CREEK Gaddis, 1994., 6 excursions beyond the criterion out of 46 samples (13%) at station BBC5	<b>GB90VP</b> in 1991, 199	<b>22.261</b> 92, and 1	-	02E	56	Temperature	e Water
<b>28</b> to	7862	5	Y	CHINA DITCH Clark County data (submitted by Carl Addy on 10/6/93) show 17 excursions beyond the crite Clark County data (submitted by Carl Addy on 10/6/93) show 17 excursions beyond the crite Clark County unpublished data from a diel study at station CHD010 (China Ditch at NE War 2001.  Lafer, 1994, 17 excursions beyond the criterion out of 21 samples (81%) at station A3 (at W	rion at the I	NE 174th NE Ward asured e	Road s	tation t	etween 7/24/91 and opetween 7/24/91 and ond the criterion on 3	11/3/92.;	During the assessment of data it was determined that WQ Policy 1-11 (updated 9/03) was overly restrictive for the number of years of data excursions needed to list for D.O. impairments . Based on a review of monitoring studies for DO statewide, it was determined that multiple (3 or more) excursions for at least two years of monitoring should be used as an alternative indicator that a waterbody continues be impaired. (Braley, ECY/WQP, 2003)
28	7865	5	Y	CHINA DITCH Lafer, 1994, 9 excursions beyond the criterion out of 21 samples (43%) at station A3 (at Wa	<b>QY97TT</b> rd Road - ′	-				Temperature	e Water
28	7868	5	Y	Clark County unpublished data from a diel study at station CHD010 (China Ditch at NE War 2001.  CHINA LATERAL  Lafer, 1994, 3 excursions beyond the criterion out of 7 samples (38%) at station D2 (China L	RP10YQ	3.868	03N	02E	36	30 August Dissolved ox	During the assessment of data it was determined that WQ Policy 1-11 (updated 9/03) was overly restrictive for the number of years of data excursions needed to list for D.O. impairments . Based on a review of monitoring studies for
to <b>28</b>	7869	5	Y	CHINA LATERAL	RP10YQ	3.868	03N	02E	36	Temperature	DO statewide, it was determined that multiple (3 or more) excursions for at least two years of monitoring should be used as an alternative indicator that a waterbody continues be impaired. (Braley, ECY/WQP, 2003)

Lafer, 1994, 2 excursions beyond the criterion out of 7 samples (25%) at station D2 (China Lateral at 172nd Ave) during 1991 and 1992.

WRIA	Listing ID Car	tegory	98 List?	Waterbody Name	Location I	nformation			Parameter	Medium
				Basis						Remarks
28	6705	5	Y	COLUMBIA RIVER	NN57SG	45122I7A8	45.805	122.785	Fecal Colifo	rm Water
				Hallock and Ehinger, 1993., excursions beyond criteria at Sauvie Island, from 9/92 to 12/9	2.;					Data is only available in hardcopy format. The water segment is listed as Category 5 based on the 1998 assessment.
28	6293	5	N	COLUMBIA RIVER	NN57SG	45122F0J6	45.595	122.065	Temperature	e Water
				U.S. Army Corp of Engineers (2001) station WRNO (Warrendale) shows 47 days exceeding	he numerio	c criterion (20 de	g. C) in 2000	0.		Same location as U.S. Army Corp of Engineers station WAR. EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.
28	6294	5	N	COLUMBIA RIVER	NN57SG	45122F3F1	45.555	122.315	Temperature	e Water
				U.S. Army Corp of Engineers (2001) station CWMW (Camas/Washougal) shows 59 days exc	eeding the	numeric criterio	n (20 deg. C	) in 2000.		EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.
28	6295	5	Υ	COLUMBIA RIVER	NN57SG	45122G0A5	45.605	122.055	Temperature	e Water
				U.S. Army Corp of Engineers (2001) station SKAW (Skamania) shows 45 days exceeding the	e numeric c	riterion (20 deg.	C) in 2000.			EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.
				Tanner, et al. 1996., 48 excursions beyond the numeric criterion (20 deg.)near Skamania, V	/A in 1996.					and Shake rivers that is underway.
28	7876	5	Υ	COLUMBIA RIVER	NN57SG	45122G0B3	45.615	122.035	Temperature	e Water
				Tanner, et al. 1996., 48 excursions beyond the numeric criterion (20 deg. C) out of 170 same	ples (37%)	near Dodson, C	R in 1996.			EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.
28	7877	5	Υ	COLUMBIA RIVER	NN57SG	45122F3H5	45.575	122.355	Temperature	e Water
				Tanner, et al. 1996., 62 excursions beyond the numeric criterion (20 deg. C) out of 180 same	ples (34%)	near Washouga	al, WA in 199	96.		EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.

WRIA Listing ID Category 98 List? Waterbody Name Location Information Parameter Medium

Remarks

28 21539 5 N COLUMBIA RIVER NN57SG 45122F3H6 45.575 122.365 Temperature Water

Continuous monitoring data from a study by Parametrix (2002 and 2004) indicates exceedances of the numeric temperature criteria of 20°C at RM 122.0 in 2002 Northwest Pulp and Paper Association presented rationale

and 2003.

the

and

a two year study performed by Parametrix (12/16/02 and 3/15/04) that temperatures higher than the 20°C numeric criteria are a natural condition and the segment meets the state water quality standard for temperature. Ecology required pulp mills on the Columbia and White/Stuck River to perform a two-year ambient water temperature monitoring study in accordance with Ecologys WQP 1-11 and quality assurance requirements. Ecology reviewed this study and

associated listing in 2003 for natural conditions, but has not yet made a determination of natural conditions for these rivers. EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway that may address this issue. The Parametrix study measured temperature data upstream and downstream of pulp mills along the rivers and found the mills did not have a measurable effect on temperatures (the associated discharges do not exceed 0.3 degrees). This study will be valuable for verifying that pulp mills do not contribute a significant increase in temperature when load allocations are being considered in the TMDL.

WRIA	Listing ID Cate	egory 9	98 List?	Waterbody Name Basis	Location I	nformatio	า			Parameter	Medium Remarks
28	21540	5	N	COLUMBIA RIVER	NN57SG	45122G	6A0	45.60	5 122.605	Temperature	Water
and				Continuous monitoring data from a study by Parametrix (2002 and 2004) indicates exceedar	nces of the i	numeric te	emperat	ure cri	teria of 20°C at RM	110.3 in 2002	Northwest Pulp and Paper Association presented rationale
the				and 2003.							a two year study performed by Parametrix (12/16/02 and 3/15/04) that temperatures higher than the 20°C numeric criteria are a natural condition and the segment meets the state water quality standard for temperature. Ecology required pulp mills on the Columbia and White/Stuck River to perform a two-year ambient water temperature monitoring study in accordance with Ecologys WQP 1-11 and quality assurance requirements. Ecology reviewed this study and associated listing in 2003 for natural conditions, but has not yet made a determination of natural conditions for these rivers. EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway that may address this issue. The Parametrix study measured temperature data upstream and downstream of pulp mills along the rivers and found the mills did not have a measurable effect on temperatures (the associated discharges do not exceed 0.3 degrees). This study will be valuable for verifying that pulp mills do not contribute a significant increase in temperature when load allocations are being considered in the TMDL.
28	22053	5	N	CURTIN CREEK	XU25TT	0	03N	02E	20	Dissolved ox	ygen Water
				Clark County unpublished data from station CUR020 (Curtin Cr dnstrm of NE 139th Street) scollected 1998-2002.  Clark County unpublished data from station CUR020 (Curtin Cr dnstrm of NE 139th Street) s 2002.		·					
28	22061	5	N	CURTIN CREEK	XU25TT	0	03N	02E	20	рН	Water

Low pH

Clark County unpublished data from station CUR020 (Curtin Cr dnstrm of NE 139th Street) show 16 excursions beyond the chronic criterion from 51 measurements collected 1998-2002.

Clark County unpublished data from station CUR020 (Curtin Cr dnstrm of NE 139th Street) show no excursions beyond the criterion from measurements collected in 2002.

WRIA	Listing ID Categ	gory 98 Lis	?? Waterbody Name Basis	Location Information	Parameter	Medium Remarks
<b>28</b> to	7894	5 Y	<b>DWYER CREEK</b> Lafer, 1994, 3 excursions beyond the criterion out of 8 samples (37%) at station C5 (at 1st	YQ90IX 7.672 02N 03E 50 s St. on Dwyer Creek) during 1991 and 1992.	Dissolved o	During the assessment of data it was determined that WQ Policy 1-11 (updated 9/03) was overly restrictive for the number of years of data excursions needed to list for D.O. impairments . Based on a review of monitoring studies for DO statewide, it was determined that multiple (3 or more) excursions for at least two years of monitoring should be used as an alternative indicator that a waterbody continues be impaired. (Braley, ECY/WQP, 2003)
<b>28</b>	7897	5 Y	FIFTH PLAIN CREEK Clark County data (submitted by Carl Addy on 10/6/93) show 7 excursions beyond the crite Lafer, 1994, 6 excursions beyond the criterion out of 21 samples (28%) at station A2 (at Fe		<b>Dissolved o</b> /91 and 8/5/92.;	
<b>28</b> to	7901	5 Y	FIFTH PLAIN CREEK Lafer, 1994, 8 excursions beyond the criterion out of 19 samples (42%) at station C3 (at Da Clark County unpublished data from a diel study at station FPL050 (Fifth Plain Cr at NE Da 2001.	<i>5</i> ,	<b>Dissolved o</b> n 30 August	During the assessment of data it was determined that WQ Policy 1-11 (updated 9/03) was overly restrictive for the number of years of data excursions needed to list for D.O. impairments. Based on a review of monitoring studies for DO statewide, it was determined that multiple (3 or more) excursions for at least two years of monitoring should be used as an alternative indicator that a waterbody continues be impaired. (Braley, ECY/WQP, 2003)
28	7908	5 Y	FIFTH PLAIN CREEK Lafer, 1994, 9 excursions beyond the criterion out of 19 samples (47%) at station A4 (at W	QO04UK 3.413 02N 03E 06 /ard Road - 172nd Ave Bridge) during 1991 and 1992.	Dissolved o	During the assessment of data it was determined that WQ Policy 1-11 (updated 9/03) was overly restrictive for the number of years of data excursions needed to list for D.O. impairments . Based on a review of monitoring studies for DO statewide, it was determined that multiple (3 or more) excursions for at least two years of monitoring should be used as an alternative indicator that a waterbody continues

be impaired. (Braley, ECY/WQP, 2003)

to

WRIA	Listing ID Catego	ory 98 Li	st? Waterbody Name Basis	Location	Informa	tion			Parameter	Remarks	Medium
28	7900	5 Y	<b>FIFTH PLAIN CREEK</b> Lafer, 1994, 7 excursions beyond the criterion out of 19 samples (37%) at station C3 (at	QO04UP Davis Road B			<b>N 03E</b> 991 and		Temperature	•	Water
			Clark County unpublished data from a diel study at station FPL050 (Fifth Plain Cr at NE I 2001.	avis Road)	measure	d excur	sions b	eyond the criterion on	30 August		
28	7907	5 Y	FIFTH PLAIN CREEK Lafer, 1994, 9 excursions beyond the criterion out of 19 samples (47%) at station A4 (at V	<b>QO04U</b> /ard Road -	_	_	<b>N 03E</b> ge) duri		Temperature	9	Water
28	7912	5 Y	LACAMAS CREEK	YQ90IX	8.59	6 02N	N 03E	51	Dissolved of	xygen	Water
to			Clark County data (submitted by Carl Addy on 10/6/93) show 6 excursions beyond the critarion out of 26 samples (15%) at station A1 (at						nd 8/5/92.	Policy 1-11 (update number of years of impairments . Bas DO statewide, it wa excursions for at le used as an alterna	ment of data it was determined that WQ ed 9/03) was overly restrictive for the data excursions needed to list for D.O. ed on a review of monitoring studies for as determined that multiple (3 or more) east two years of monitoring should be tive indicator that a waterbody continues ey, ECY/WQP, 2003)
28	7915	5 Y	LACAMAS CREEK	YQ90IX	2.28	6 01N	N 03E	47	Dissolved of	xygen	Water
to			Lafer, 1994. 12 excursions beyond the criterion out of 20 samples (60%) at station B1 (ou	let on Lacar	nas Cred	ek) durir	ng 1991	and 1992.		During the assessr Policy 1-11 (update number of years of impairments . Bas DO statewide, it wa excursions for at le used as an alterna	ment of data it was determined that WQ ed 9/03) was overly restrictive for the data excursions needed to list for D.O. ed on a review of monitoring studies for as determined that multiple (3 or more) east two years of monitoring should be tive indicator that a waterbody continues ey, ECY/WQP, 2003).
28	7921	5 Y	LACAMAS CREEK	YQ90IX	15.67	79 02N	N 03E	07	Dissolved of	xygen	Water
			Lafer, 1994, 5 excursions beyond the criterion out of 21 samples (23%) at station A5 (at	ourth Plain	Road Br	dge) du	ring 19	91 and 1992.		Policy 1-11 (update	ment of data it was determined that WQ ed 9/03) was overly restrictive for the data excursions needed to list for D.O.

Policy 1-11 (updated 9/03) was overly restrictive for the number of years of data excursions needed to list for D.O. impairments . Based on a review of monitoring studies for DO statewide, it was determined that multiple (3 or more) excursions for at least two years of monitoring should be used as an alternative indicator that a waterbody continues

be impaired. (Braley, ECY/WQP, 2003)

				Basis							Remarks	
28	7924	5	Υ	LACAMAS CREEK YQ	90IX	20.698	02N	03E	10	Dissolved of	kygen	Water
to				Lafer, 1994, 8 excursions beyond the criterion out of 20 samples (40%) at station C1 (just upstre	eam of N	Matney Cre	eek) d	uring 1	991 and 1992.		Policy 1-11 (update number of years of impairments . Base DO statewide, it wa excursions for at le used as an alternat	nent of data it was determined that WQ and 9/03) was overly restrictive for the data excursions needed to list for D.O. and on a review of monitoring studies for as determined that multiple (3 or more) ast two years of monitoring should be ive indicator that a waterbody continues y, ECY/WQP, 2003)
28	7913	5	Υ	LACAMAS CREEK YQ	190IX	8.596	02N	03E	51	Fecal Colifo	rm	Water
				Clark County data (submitted by Carl Addy on 10/6/93) show 2 excursions beyond the criterion a	at the NE	Goodwin	Road	statio	n on4/5/92 and 7/15	/92.		were previously submitted only in
				Lafer, 1994, 2 excursions beyond the upper criterion at station A1(at Goodwin Road Bridge) on	n 4/5/92	and 7/15/9	92 out	of 3 sa	amples.		hardcopy form. The based on the 1998	e water segment is listed as Category 5 assessment.
28	7916	5	Υ	LACAMAS CREEK YQ	90IX	2.286	01N	03E	47	рН		Water
				Lafer, 1994. 7 excursions beyond the criterion out of 20 samples (35%) at station B1 (outlet on La	.acamas	Creek) be	etweer	1991	and 1992.		TRS was 01N-03E-	-44 on 1998 listkk
											Both low pH and hi	gh pH
28	7914	5	Υ	LACAMAS CREEK YQ	90IX	2.286	01N	03E	47	Temperature	<b>:</b>	Water
				Lafer, 1994. 13 excursions beyond the criterion out of 20 samples (65%) at station B1 (outlet on	Lacama	s Creek) c	during	1991 a	and 1992.		TRS was 01N-03E-	-44 on 1998 listkk
28	7917	5	Υ	LACAMAS CREEK YQ	190IX	8.596	02N	03E	51	Temperature	)	Water
-				Lafer, 1994, 7 excursions beyond the criterion out of 26 samples (27%) at station A1 (at Goodwi	in Road	Bridge) du	ıring 1	991 ar	nd 1992.			
28	7920	5	Υ	LACAMAS CREEK YQ	190IX	15.679	กวม	03E	07	Temperature	<u>,</u>	Water
	. 525		-	Lafer, 1994, 7 excursions beyond the criterion out of 21 samples (33%) at station A5 (at Fourth I			-		-	romporatare		
28	7923	5	Υ	LACAMAS CREEK YQ	90IX	20.698	02N	03E	10	Temperature	<b>.</b>	Water
				Lafer, 1994, 7 excursions beyond the criterion out of 20 samples (35%) at station C1 (just upstre	eam of N	Matney Cre	eek) d	uring 1	991 and 1992.	-		
28	43465	5	N	LACAMAS LAKE 624	1COD	02N 03	E 3	4		Total PCBs		Tissue

**Location Information** 

Medium

Parameter

WRIA Listing ID Category 98 List? Waterbody Name

Wednesday, November 2, 2005

Seiders, 2004 shows fillet samples of largemouth bass collected in 2003 exceeded the National Toxics Rule criterion for Total PCBs

WRIA	Listing ID Car	tegory	98 List?	Waterbody Name Basis	Location Infor	mation		Parameter	Remarks	Medium
28	6346	5	N	LACAMAS LAKE  Completed Phase I State Clean Lakes Restoration Project in 1986 - Problems Encountered: turbidity, tributary nutrient inputs, aquatic macrophytes. Intergovernmental Resource Center county unpublished data show the summer mean epilimnetic total phosphorus concentration 2002.	r, 1988.Beak Co	ae, low	dissolved oxygen, low transpa ts and Scientific Resources, 19	985. Clark	Phase II State Clea measures underwa nutrient manageme	em management, ordinance
28	40870	5	Y	LAKE RIVER 4 excursions beyond the criterion out of 12 samples (33%) at Ecology ambient monitoring sta			<b>04N 01W 38</b> between 9/91 and 9/96	Fecal Colifo	Mistakenly listed er on station 28F070.	Water ntered into 1996 list decision matrix based This station is on the segment WA-28-
segment										represent upstream conditions on -25-03: REASSESS, OLD DATA
28 segment	40869	5	Y	LAKE RIVER 4 excursions beyond the criterion out of 12 samples (33%) at Ecology ambient monitoring sta			<b>04N 01W 38</b> 9/91 and 9/96	Temperaturo	Mistakenly listed er on station 28F070. 1010 and does not	Water Intered into 1996 list decision matrix based This station is on the segment WA-28- represent upstream conditions on -25-03: REASSES, OLD DATA
28	7929	5	Y	MATNEY CREEK  Clark County data (submitted by Carl Addy on 10/6/93) show 8 excursions beyond the criteric Clark County unpublished data from station MAT010 (Matney Cr upstrm of NE 68th Street) station MAT010 (Matney Cr upstrm		3th Stree			During the assessn Policy 1-11 (update	Water nent of data it was determined that WQ and 9/03) was overly restrictive for the data excursions needed to list for D.O.
DO				collected in 2001-2002.  Lafer, 1994. 7 excursions beyond the criterion out of 19 samples (37%) at station C2 (at 68th	n St. Bridge) du	ring 199	1 and 1992.		statewide, it was d excursions for at le used as an alternat	etermined that multiple (3 or more) ast two years of monitoring should be ive indicator that a waterbody continues y, ECY/WQP, 2003)
28	22016	5	N	MATNEY CREEK  Clark County unpublished data from station MAT010 (Matney Cr upstrm of NE 68th Street) s in 2002.  Lafer, 1994, 1 excursion beyond the upper criterion at station C2 (at 68th St. Bridge) on 4	-	ic mean		Fecal Colifo	rm	Water

WRIA	Listing ID Cat	tegory	98 List?	Waterbody Name Basis	Location Info	ormation		Parameter	Remarks	Medium
28	7930	5	Y	MATNEY CREEK  Lafer, 1994, 5 excursions beyond the criterion out of 19 samples (26%) at station C2 (at 68t Clark County unpublished data from station MAT010 (Matney Cr upstrm of NE 68th Street) s	3 ,	during 1991	and 1992.	Temperatur		Water
				2002.	SHOW EXCUISION	is beyond t	ne chienon nom measureme	ins conected in		
28	7936	5	Υ	ROUND LAKE	636ALD (	1N 03E	46	Dissolved o	xygen	Water
				Lafer, 1994, 5 excursions beyond the criterion out of 11 samples (45%) at station B2 (outlet	on Mill Ditch a	at Garfield F	Road) during 1991 and 1992.		Redesignated as F	Round Lake instead of Mill Creek. 07/19/04
-									kk	
									Policy 1-11 (update number of years of impairments . Bas DO statewide, it wa excursions for at le	nent of data it was determined that WQ ed 9/03) was overly restrictive for the data excursions needed to list for D.O. ed on a review of monitoring studies for as determined that multiple (3 or more) ast two years of monitoring should be tive indicator that a waterbody continues
to									be impaired. (Brale	ey, ECY/WQP, 2003)
28	7935	5	Υ	ROUND LAKE	636ALD (	1N 03E	46	рН		Water
				Lafer, 1994, 7 excursions beyond the criterion out of 11 samples (67%) at station B2 (outlet	on Mill Ditch a	at Garfield F	Road) between 1991 and 199	2.	Low pH.	
									Redesignated from	Mill Ditch to Round Lake. 07/19/04 -kk
28	22055	5	N	SALMON CREEK	FP99QE 2	2.058 03	N 01E 20	Dissolved o	xygen	Water
				Clark County unpublished data from station SMN010 (Salmon Cr at NW 36th Avenue) show 1998-2002.	excursions be	yond the cl	nronic criterion from measure	ments collecte	d	
28	22063	5	N	SALMON CREEK	FP99QE 2	2.058 03	N 01E 20	рН		Water
				Clark County unpublished data from station SMN010 (Salmon Cr at NW 36th Avenue) show collected 1998-2002.	13 excursions	beyond the	e chronic criterion from 51 me	easurements	Low pH	
28	22065	5	N	SALMON CREEK	FP99QE 2	21.063 03	N 02E 15	рН		Water
				Clark County unpublished data from station SMN050 (Salmon Cr at Caples Road) show 11 collected 1998-2002.	excursions bey	ond the ch	ronic criterion from 51 measu	ırements	Low pH	
28	22066	5	N	SALMON CREEK	FP99QE 3	34.326 <b>0</b> 3	N 03E 03	рН		Water
				Clark County unpublished data from station SMN080 (Salmon Cr at NE 199th Street) show collected 1998-2002.	17 excursions	beyond the	chronic criterion from 51 me	•	Low pH	

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WRIA	Listing ID Cateo	jory 9	98 List?	Waterbody Name Basis	Location I	nformatio	n			Parameter	Remarks	Medium
28	22047	5	Y	SALMON CREEK Clark County unpublished data from station SMN010 (Salmon Cr at NW 36th Avenue) show 1998, 1999, 2000 and 2002.	FP99QE excursions	<b>2.058</b> s beyond t		01E 20	from measurem	Temperature nents collected	,	Water
28	7946	5	Y	SHANGHAI CREEK Lafer, 1994, 8 excursions beyond the criterion out of 17 samples (47%) at station C4 (at 212)	IA24XE Ave Bridge	<b>1.176</b> e) during	_	<b>03E 05</b> nd 1992.		Dissolved ox	Moved to Category 5 data it was determine was overly restrictive excursions needed to review of monitoring determined that mult monitoring should be	water  i. sb 4/6/05 During the assessment of ed that WQ Policy 1-11 (updated 9/03) e for the number of years of data o list for D.O. impairments. Based on a studies for DO statewide, it was iple excursions for at least two years of e used as an alternative indicator that a to be impaired. (Braley, ECY/WQP,
2003)	7947	5	Y	SHANGHAI CREEK Lafer, 1994, 3 excursions beyond the criterion out of 17 samples (18%) at station C4 (at 212	<b>IA24XE</b> Ave Bridge	<b>1.176</b> e) betwee		<b>03E 05</b> and 1992.		рН	,	Water
28	7945	5	Y	SHANGHAI CREEK Lafer, 1994, 3 excursions beyond the criterion out of 17 samples (18%) at station C4 (at 212)	IA24XE Ave Bridge	<b>1.176</b> e) during		<b>03E 05</b> nd 1992.		Temperature	,	Water
<b>28</b> Project	6324	5	N	VANCOUVER LAKE Completed Phase I Federal Clean Lakes Restoration Project in 1978- Problems Encountere macrophytes, sediment phosphorus recycling, fecal coliform bacteria.	<b>073FDJ</b> d: Blue-gre		<b>01E</b> 3		low dissolved ox	Fecal Colifor xygen, aquatic	Completed Phase II in 1986:Dames and I implemented based removal/dredging, di previously submitted	Water Federal Clean Lakes Restoration Moore, 1980.Control measures on the Phase I Study - sediment lution/flushing. Fecal coliform data were only in hardcopy form. The water Category 5 based on the 1998
<b>28</b> Project	7949	5	N	VANCOUVER LAKE Completed Phase I Federal Clean Lakes Restoration Project in 1978- Problems Encountere macrophytes, sediment phosphorus recycling, fecal coliform bacteria.	<b>073FDJ</b> d: Blue-gre	<b>451220</b> een algae		45.675 Insparency,	122.715 low dissolved or	Fecal Colifor xygen, aquatic	Completed Phase II in 1986:Dames and I	Moore, 1980.Control measures on the Phase I Study - sediment

Fecal coliform data were previously submitted only in hardcopy form. The water segment is listed as Category 5 based on the 1998 assessment. The basis cited for the assessment applies to the entire lake. The center grid

segment of the lake was selected to represent this information.

WRIA	Listing ID Cat	tegory	98 List?	Waterbody Name	Location Ir	nformation				Parameter	Medium
				Basis							Remarks
28	42172	5	N	VANCOUVER LAKE	073FDJ	45122G7	'J1	45.695	122.715	Total PCBs	Tissue
				Seiders, 2004. shows the National Toxics Rule criterion was exceeded in Largemouth bass	illet sample	s collected	10/3/2	002.			
				Davis et al, 1995.(Ecology pub # 95-356) shows criterion was exceeded in Largemouth bass	fillet sample	es collecte	d in 19	93.			
28	6375	5	N	VANCOUVER LAKE	073FDJ	03N 01	E 51			Total Phospi	horus Water
				Completed Phase I Federal Clean Lakes Restoration Project in 1978- Problems Encountered macrophytes, sediment phosphorus recycling, fecal coliform bacteria.	d: Blue-gree	en algae, l	ow tran	sparency,	low dissolved o	xygen, aquatic	Completed Phase II Federal Clean Lakes restoration Project in 1986:Dames and Moore, 1980.Control measures implemented based on the Phase I Study - sediment removal/dredging, dilution/flushing.
28	16774	5	N	WASHOUGAL RIVER	ME26VJ	20.632	02N	05E 31		Fecal Colifor	rm Water
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 28B110 (Washougal R. below C criterion and that 0% of the samples does not exceed the percentile criterion from 2 samples Monitoring Station 28B110 (Washougal R. below Canyon Creek) shows a geometric mean exceeds the percentile criterion from 4 samples collected during 1997.; Hallock (2001) Dept. Canyon Creek) shows a geometric mean of 15 does not exceed the criterion and that 0% of samples collected during 1999.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station mean of 18 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 11 samples collected of Station 28B110 (Washougal R. below Canyon C station 28B110 (Washougal R. below C station 28B110 (Washougal R.	collected dof 33 does not of Ecology for the sample not 28B110 (Vercentile crit Creek) show during 2000.	uring 1994 not exceed y Ambient es does no Washougal terion from vs a geome ; Hallock	the crit Monitor Monitor of excee I R. belor 9 sam etric me (2001)	lock (2001 terion and ring Station ed the perc ow Canyon ples collect ean of 9 do Dept. of E	Dept. of Ecolor that 50% of the 28B110 (Wash entile criterion for Creek) shows ted during 1998 ses not exceed to cology Ambient	gy Ambient samples nougal R. belov rom 6 a geometric .; Hallock he criterion an Monitoring	
28	22067	5	N	WEAVER CREEK	HO68MC	0	03N	02E 15		рН	Water
				Clark County unpublished data from station WDN010 (Weaver Creek at Caples Rd.) show 1 collected 1998-2002.	4 excursions	s beyond t	he chro	onic criterio	n from 51 meas	surements	Low pH
28	22018	5	N	WHIPPLE CREEK	ER25WD	3.931	03N	01E 17		Fecal Colifor	rm Water

Clark County unpublished data from station WPL050 (Whipple Cr upstrm of NW 179th Street) show a geometric mean of 634 cfu/100mL from 6 samples collected in 2002.